SWIS # 45-AA-0014

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION

ORDER NO. 74-312

WASTE DISCHARGE REQUIREMENTS
FOR
BUCKEYE CLASS II-2 SOLID WASTE DISPOSAL SITE
REDDING - SHASTA COUNTY

The California Regional Water Quality Control Board, Central Valley Region, finds that:

1. The County of Shasta, 1855 Placer Street - Redding 96001, submitted a report of waste discharge dated 10 December 1969.

2. The discharger is discharging Groups 2 and 3 wastes in Sec 35, T33N, R5W, as shown in Attachment "A" incorporated herein and made part of this order. This site is approximately 6 miles north of Redding. The property is owned by the ~~U.S. Bureau of Land Management.~~ COUNTY OF SHASTA

3. Current plans indicate development of 90 acres of a 145 acre site as a sanitary landfill. The site was used as an open burning dump for approximately 20 years, and was converted to a modified landfill in 1969. Wastes presently occupy 15-20 acres, and are deposited to maximum depths of 18 feet. The operation was converted to a sanitary landfill on 1 July 1973. Cover material is obtained on site by excavating to bedrock. The site will ultimately accept solid wastes from the entire county, amounting to 35-50 thousand tons per year.

4. The site is located in the foothills of the Trinity Mountains, approximately 4-5 miles northwest of the Redding groundwater basin. Nelson Creek, with a tributary drainage area of 550 acres, bisects the site. Average annual rainfall is 50 inches. Runoff enters Churn Creek ½ mile downstream from the site, and thence the Sacramento River. A U.S.G.S. gage 2½ miles southeast of the site indicates Churn Creek to be dry at this point from July through October. The five year (Oct 1965 - Sept 1970) average discharge at this point is 25.7 cfs. The site is underlain by hard metamorphosed volcanic rock of the Copley formation. These rocks may be deeply weathered and overlain by scattered but thin deposits of gravel. Existence of groundwater in the area is unknown, but small quantities may occur in fractures near the surface.

5. This disposal site meets the criteria contained in the California Administrative Code, Title 23, Chapter 3, Subchapter 15, for classification as a Class II-2 Disposal Site suitable to receive Group 2 and Group 3 wastes.

6. The total capacity of the disposal site is reported to be adequate for an additional 6-7 years.

7. Beneficial uses of Churn Creek include irrigation, Stock watering, preservation and enhancement of fish and wild life, minor recreation, and esthetic enjoyment. Use of groundwater in this area is believed to be negligible, as development follows established roadways and is served by pipewater. The nearest well is reported to be in the order of ½ mile from the site.

8. Land within 1000 feet to the east and west is vacant forest land. The Ranchers Pines Subdivision is 500 feet from the north property line, and individual homes border the south property line.

9. The Interim Water Quality Control Plan for the Sacramento Sub-Basin was adopted on 15 june 1971, and this Order implements the water quality objectives stated in the plan.

10. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for this discharge.

11. The Board in a public meeting heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, the County of Shasta and the property owner shall comply with the following:

A. Discharge Specifications

1. The treatment or disposal of waste shall not cause pollution or a nuisance.

2. Waste materials shall not be disposed of outside of the designated disposal areas shown on Attachment A.

3. The disposal areas shall be protected from any washout or erosion of wastes or covering material, and from inundation, which could occur as a result of floods having a predicted frequency of once in 100 years.

4. Surface drainage from tributary areas, and internal site drainage from surface or subsurface sources shall not contact or percolate through Group 2 wastes discharged at the site. Drainage channel surfaces shall be separated from wastes by 10 feet of native material or compacted embankments.

5. Group 2 waste materials shall not be discharged on any surface which is less than elevation 775 USGS Datum.

6. Wastes shall be underlain by at least 2 feet of clayey soil materials.

7. Group 1 wastes shall not be deposited at this site.

8. Liquids shall not be discharged in Group 2 solid wastes at this site. Water used during disposal site operations shall be limited to a minimal amount reasonably necessary for dust control purposes. Liquid wastes may be discharged to separate ponding or spreading areas only if the specific wastes, manner and place of disposal are approved by the Executive Officer.

9. Liquid control barriers shall be maintained down-gradient from the disposal area to prevent any leachate or other liquid wastes from entering surface waters.

10. Leachate volumes contained by liquid control barriers shall be maintained below a volume equal to 75 percent (or a lesser amount if necessary because of specific site conditions) of the total liquid storage capacity of the barrier.

11. Annually, prior to the anticipated rainfall period, all necessary runoff diversion channels shall be in place to prevent erosion or flooding of the site.

12. No Group 2 wastes shall be placed in ponded water from any source whatsoever.

13. The exterior surfaces of the disposal area shall be graded to promote lateral runoff of precipitation and to prevent ponding.

14. The discharger shall remove and relocate any wastes which are discharged at this site in violation of these requirements.

B. Provisions

1. The County of Shasta shall submit, within 90 days of the effective date of this order, a technical report prepared by a Registered Civil Engineer or Engineering Geologist. The report shall include the following information regarding the site:

   a. A grading plan, at a scale of 1"=100', showing the ultimate boundaries of waste placement and site drainage channels, and contour elevations of the contact between solid wastes and undisturbed earth.

   b. A waste placement plan showing proposed contour elevations of the waste mass at the time of site closure.

   c. Computations documenting ultimate site capacity in cubic yards.

d. Hydrologic computations documenting the runoff from a 100 year storm, and the ability of Nelson Creek to convey the runoff without inundating the solid wastes. Computations shall include flood routing of the 100 year storm runoff through the S.P. railroad culverts at Churn Creek and Nelson Creek.

e. A survey of the surface soil and geologic characteristics of the site. This survey shall include identification of the types of rock exposed on the site, and the depth at which open fractures occur.

f. Measures proposed for the control of leachate.

g. Anticipated land use after termination of disposal operations.

2. The discharger shall maintain a copy of this order at the site so as to be available at all times to site operating personnel.

3. The discharger shall file with this Board a report of any material change or proposed change in the character, location or quantity of this waste discharge. For the purpose of these requirements, this includes any proposed change in the boundaries, contours or ownership of the disposal area (s).

4. The discharger shall comply with the Monitoring Program...as specified by the Executive Officer.

5. The (discharger) shall file a written report within 90 days after the total quantity of wastes discharged at this site equals 75 percent of the reported capacity of the site. The report shall contain a schedule for studies, design and other steps needed to provide additional capacity, or the total quantity discharged shall be limited to the reported capacity.

6. Ninety (90) days prior to discontinuing the use of this site for waste disposal the discharger shall submit a technical report to the Board describing the methods and controls to be used to assure protection of the quality of surface and groundwaters of the area during final operations and with any proposed subsequent use of the land. This report shall be prepared by or under the supervision of a registered engineer or a certified engineering geologist. The method used to close the site and maintain protection of the quality of surface and groundwaters shall comply with waste discharge requirements established by the Regional Board.

7. This Board considers the property owner to have a continuing responsibility for correcting any problems which may arise in the future as a result of this waste discharge or water applied to this property during subsequent use of the land for other purposes.

I, JAMES A. ROBERTSON, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Central Valley Region, on MAY 24 1974.

Original signed by
James A. Robertson

JAMES A. ROBERTSON, Executive Officer